## Technical Information for Location Hydraulic Study

Dist.	<u>12</u>	Co.	<b>Orange County</b>	Rte	e. <u>74</u>	P.M.	11.50	–13.29 a	and 13.32-16.60
EA	<u>0P030</u>					Bridge	No.	N/A	
Floodplain Description:									
The project is within the San Juan Creek Watershed. The project falls within mapped Zone X (areas									
				8400 0000	70.28				e Protected Areas)
floodpl	ains. The	applica	able FEMA map r	numbers for	the project	are 0605	59C046	0J and 0	6059C0500J.
1.5		( D	17.	1 2 11				22	
				n gree	iers i.e. con	crete bai	rriers, s	oundwa	lls, etc. and design
			loodplain impact		44-		.1.41	- l l -l	
									rs to continuous 4-
									ong the horizontal
								500 MAN 100 MA	10-foot shoulders,
									e, improve existing
									dway surface with
			Russ and a second						pavement related
									onstruction of new
			equired for resto					90	
									istoric bridge (San
				The reviseu	post mile ii	mits are	IIOIII P	101 11.50	0 to PM 13.29 and
IIOIII FI	M 13.32	LO PIVI 1	.0.00.						
2. ADT:	Curren	t	11,000	Pro	jected	14,000	_		
3 Hydr	aulic Dat	·a·	Base Flood Q100	= 6 520 CFS	:				
3yu	adiic Dat		WSE100 = $781.8$		•				
The floo	od of rec	ord, if g	reater than Q100						
		o. a, <sub>6</sub>	$Q = \frac{N/A}{N}$	•					
			WSE = N/A						
Overtor	ping flo	od:	<u>11771</u>						
	1 0		Q = N/A						
			WSE = N/A						
Are NFI	P maps a	and stud		Yes x No					
				<u> </u>					
4. Is the	highwa	y locatio	on alternative wi	thin a regula	tory floody	vay?			
		-		Yes No					
5. Attach map with flood limits outlined showing all buildings or other improvements within the base floodplain.									
Potential Q100 backwater damages:									

No\_\_x

Yes\_\_\_\_No\_\_x

Residences?

Other Bldgs?

A.

В.

C.	Crops?		Yes_		No	X	
D.	Natural and I	peneficial					
	Floodplain va	alues?	Yes_		No	х	-
6. Ty	pe of Traffic:						
		or evacuation route?	Yes	X	No		
	nergency vehicle			х			•
	acticable detour			х			•
	hool bus or mail		900000000	х			· -
7. Est	imated duration	of traffic interruption	for 100-y	ear evei	nt hours:	N/A	<u>.</u> (
0 Ect	imated value of	Q100 flood damages (i	fanu) me	adorato	rick lovel	î	
			i arry) – irro	Juerate	risk ievei		
A. B	Roadway	\$ <u>N/A</u>					
D	Property Total	\$N/A \$ N/A					
	TOtal	ŞN/A					
9.	Accessment (	of Level of Risk Lov	vx				
J.	Assessment		derate				
			h				
		1116	,111				
		s, during design phase, determine design alte		l Design	Study Ri	sk Analysis	;
Signa (Item	ture – Dist. Hydi numbers 3, 4, 5	raulic Engineer , 7, 9)	Pho	$\sum_{m}$	h	Da	ote 08/08/2017
	ere any longitu plain developm					or any s	upport of incompatible
If yes,	, provide evaluat	ion and discussion of p	racticabili	ty of alto	ernatives	in accorda	nce with 23 CFR 650.113
	mation develope ned in the projec		Federal red	quireme	ent for th	e Location	Hydraulic Study shall be
	ture – Dist. Proje numbers 1, 2, 6		·/				Date 8/8/17

## FLOODPLAIN ENCROACHMENT REPORT SUMMARY

## El Modena – Irvine Channel

Dist. EA	<u>12</u> <u>0P030</u>	Co.	Orange County	Rte.	<u>74</u>	P.M. Bridge		–13.29 and 13 <u>N/A</u>	3.32–16.	<u>.60</u>	
	Limits: 0.8 mile west of the San Juan Hot Springs Canyon (PM 11.50) and Orange County/ Riverside County Line (PM 16.60), excluding San Juan Canyon Bridge No. 55-00064 (PM 13.29)										
Floodplain Description:  The project is within the San Juan Creek Watershed. The project falls within mapped Zone X (areas determined to be outside the 0.2% annual chance floodplain) and Zone D (Otherwise Protected Areas) floodplains. The applicable FEMA map numbers for the project are 06059C0460J and 06059C0500J.											
	<ol> <li>Are the risks associated with the implementation of the proposed action significant?</li> <li>Will the proposed action support probable incompatible floodplain development?</li> <li>Are there any significant impacts on natural and beneficial floodplain values?</li> <li>Routine construction procedures are required to minimize impacts on the floodplain.         Are there any special mitigation measures necessary to minimize impacts or restore and preserve natural and beneficial floodplain values? If yes, explain.</li> <li>Does the proposed action constitute a significant floodplain encroachment as defined in 23 CFR, Section 650.105(q).</li> </ol>										
Signat	ure – Dist	Enviro	nulic Engineer  For  Smark  District Engineer	Date  8/8 Date  9/9 Date	<u>  19/20</u>   <u>19/20</u>   112	17					